

Claims

What is claimed is:

1. An isolated nucleic acid comprising the nucleotide sequence of SEQ ID NO: 2.
2. An isolated nucleic acid comprising a sequence that hybridizes under stringent
5 conditions to a nucleic acid comprising a nucleotide sequence of SEQ ID NO: 2,
or the complement thereof.
3. A probe for use in identifying a patient at risk for progression into the malignant
phenotype comprising the nucleotide sequence of SEQ ID NO: 2, or the
complement thereof, or the labeled nucleotide sequence of SEQ ID NO: 2, or the
complement thereof.
10
4. The probe of claim 3, wherein the label is a fluorescent dye molecule, a
radioisotope, a chemiluminescent molecule, or an enzyme.
5. A method for detecting whether a patient is at risk for progression into
glioblastoma multiforme comprising,
15
 - a) providing a sample from a patient;
 - b) adding a labeled probe comprising the nucleotide sequence of SEQ ID
NO:2 to the sample or performing PCR analysis using SEQ ID NO: 5 and
SEQ ID NO: 6;
 - c) analyzing levels of mRNA bound with the probe;
 - d) treating a control sample according to the method to assess the level of
20 mRNA in a control sample; wherein the presence of increased levels of
mRNA expression in the sample in an amount higher than the control
sample indicates risk for progression into glioblastoma multiforme.

- 5
6. A kit for use in detecting whether a patient is at risk for progression into glioblastoma multiforme comprising nucleotide sequence probes of SEQ ID NO:2 and instructions for use.
7. The kit of claim 6, further comprising reagents and components for use in performing assays.
8. A kit for use in detecting whether a patient is at risk for progression into glioblastoma multiforme comprising nucleotide sequence probes of SEQ ID NO: 5 and SEQ ID NO: 6 and instructions for use.
9. The kit of claim 8, further comprising reagents and components necessary to use SEQ ID NO: 5 and SEQ ID NO: 6 as primers for PCR amplification reaction.
- 10